RM12_S2P

User Manual

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Unpacking RM12_S2P:

Open the DATOptic RM12_S2P box and carefully remove the RM12_S2P unit and accessories, the **RM12_S2P** and accessories including the following items:
• **RM12_S2P** unit x1
• eSATA_PCIX (optional) – PCI and PCIX compatible
• eSATA cable x3
• Power Cable x1
• Screws and screwdriver (HDD tray unlock tool) kit
• Downloadable Manual & Drivers (were needed) kit

Chapter 1 Introduction

1.1 Overview

The **DATOptic.com RM12_S2P** is an easy-use and cost- effective 3.5" SATA and SATA II Hot-swappable hard disk drive storage enclosure that can be used as **Near-Line RAID Storage Cluster system** mass storage device, delivering of large amounts of expandable storage space. An ideal for large storage libraries, digital video & digital audio files, backups and flexibility to grow with your storage needs.

RM12_S2P is ideal for data centre, departmental and DVR server users who need a flexible, universal storage enclosure that utilizes a common storage building block for their current and future data needs. **RM12_S2P** near-line storage systems intended for use with servers delivering large business data storage and applications with which require excellent accessibility, serviceability, and large storage capacity.

Front View

Rear View

Model: RM12S_P with 3x eSATA connection

Universal AC Input
350W Power supply Unit

eSATA host connection

1.2 Key Feature
• eSATA interface x3;
• 4U rack height;
• Supports up to twelve (12x) 3.5" SATA disk drives;
• Supports 48Bit LBA – drives larger then 130GB (up-to 500GB)
• Excellent cooling system ensures the drives' reliability;
• Hot-swappable disk drive tray with special designed power-off and lock mechanism;
• Monitor and alarm notification for temperature and fans

1.3 Specification
Model DATOptic.com RM12_S2P
Construction Heavy duty 1.2mm steel, meets FCC/CE Class
Drive Bay 12 x hot-swappable SATA or SATA II drive
Interface eSATA
Cooling Fan Three 70mm fans
Switch Power ON/OFF x 1
Indicator HDD Power x 12, HDD Data Access x 12,
Temperature monitor, fan monitor
Maximum Storage Capacity 6000GB/ 6 terabytes
Data speed 3.0Gbps
RAID Support RAID0, RAID1, RAID 5 and JBOD (depend on RAID controller card)
Any operating system that supports SATA II with port multiplier
Dimensions (W x D x H) 19" x 18.5" x 6.89" (483mm x 470mm x 175mm)
Temperature Range Operating 41°F to 104°F (5°C to 40°C)
Shipping -31°F to 167°F (-35°C to 75°C)
Weight 35 lb / 16 kg (without hard drive)

Chapter 2 Installation Introductions

Insert the small screwdriver into the unlock hole of the drive carrier, pull the key to the side to release the handle, and then withdraw the drive carrier.

Chapter 3 System Starting

3.1 Indicators and Switch

3.1.1 LED Indicators Power LED (Green): Always on

Data Access LED (Yellow): Flashing when data's writing or reading

3.1.2 Alarm Indicators

Temperature Monitoring:

This indicator stays green when the operating temperature inside the chassis is normal (under 105°F). It will turn red when it is over the normal operating temperature.

Fan Monitoring:

When the fans operate normally, this indicator stays green. It will turn red when one of the fans malfunction or stop working.

POWER LED Data Access LED

3.1.3 Switch

3.1.3.1 SW: Alarm Reset

The alarm will go off when the operating temperature is above limit or one of the fans stop running. You may select to stop the alarm by pressing the reset switch and have the system running continually (NOT RECOMMENDED).

3.1.3.2 RAID0 Function

Please refer to HBA document to set up RAID functions

Special Notes:
1. DO NOT force to remove drive carrier, it will cause damage if removing the drive carrier from the chassis before unlocking the carrier by using the proper key
2. Although **RM12_S2P** supports hot swappable, never withdraw a HDD that is being read or written. Before you want to disconnect /unplug SATA Device cable or withdraw a HDD, please make sure data transmission has been completed.
3. For the best result of ventilation inside the chassis, please don't open the case while **RM12_S2P** is operating.